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Page 4

O,00-1 N,N1-2



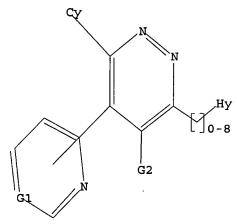
L1 STRUCTURE UPLOADED

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L1 HAS NO ANSWERS

L1

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G1 C,N

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Structure attributes must be viewed using STN Express query preparation.

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SAMPLE SEARCH INITIATED 10:30:31 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 2001 TO ITERATE

100.0% PROCESSED

2000 ITERATIONS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:

ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS:

37337 TO 42703

PROJECTED ANSWERS:

O TO

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0 SEA SSS SAM L1

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FULL SEARCH INITIATED 10:30:48 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 37122 TO ITERATE

100.0% PROCESSED 37122 ITERATIONS

SEARCH TIME: 00.00.01

8 ANSWERS

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Habte

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=> file caplus COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 166.94 167.15

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 10:30:56 ON 21 SEP 2006
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=> s 13

L4 1 L3

=> d ibib abs hitstr

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L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS ON STN ACCESSION NUMBER: 2004:927172 CAPLUS DOCUMENT NUMBER: 141:395567

DOCUMENT NUMBER: TITLE: for Preparation of substituted pyridazines and analogs

treatment of TNP-α, IL-1β, IL-6, and/or IL-8 mediated disorders Dominguez, Celia; Goldberg, Martin H.; Tamayo, Nuria INVENTOR (S):

A.
Amgen Inc., USA
PCT Int. Appl., 46 pp.
CODEN: PIXXD2
Patent PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE:

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	INFOR			N1:	•												
PATENT NO.					KIN	D	DATE 20041104		WO 2004-US11953								
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WC	0 2004094379			A2													
WC	2004094379				A3		20050331										
	W:	AE,	AG,	AL,	AM,	AT,	AU.	AZ.	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,
		CN.	co,	CR,	CU,	CZ.	DE.	DK.	DM,	DZ,	EC.	EE.	EG.	ES.	PI.	GB,	GD.
		GE,	GH,	GM,	HR,	ΗU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LC,
		LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NA,	NI,
		NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	sc,	SD,	SE,	SG,	SK,	SL,	SY,
		TJ,	TM,	TN,	TR,	TT,	TZ.	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW
	RW:	BW,	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	AZ,
		BY,	KG,	KZ,	MD,	RU,	TJ,	TM,	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,
		ES,	PI,	FR,	GB,	GR,	HU,	IE,	IT,	LU,	MC,	NL,	PL,	PT,	RO,	SE,	SI,
		SK,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,
		TD,	TG														
US	US 2004254178				A1 20041216				US 2004-826982					20040415			
EP	1628665				A2 20060301			EP 2004-750293					20040415				
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TODIT	V ADD	r at	THEO							110 3			07B			^^~	

WO 2004-US11953 W 20040415

OTHER SOURCE(S): MARPAT 141:395567

ANSMER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN (Continued) acid benzyl ester 786705-17-7P, 4-(4-Methyl-5-[2-(1-phenylethylamino)pyrimidin-4-yl)-6-(3-trifluoromethylphenyl)pyridazin-3-yllpiperidine-1-carboxylic acid benzyl ester 786705-19-9P, [4-[5-Methyl-6-(piperidin-4-yl)-3-(3-trifluoromethylphenyl)pyridazin-4-yllpyrimidin-2-yll [-phenylethylamino 786705-21-9P, 2-Hydroxy-1-(4-[4-methyl-5-[2-(1-phenylethylamino)pyrimidin-4-yll)-6-(3-trifluoromethylphenyl)pyridazin-3-yllpiperidin-1-yllpropan-1-ome 786705-23-5P, [S]-4-[4-Methyl-5-[2-(1-phenylethylamino)pyrimidin-4-yll)-6-(3-trifluoromethylphenyl)pyridazin-3-yllpiperidin-1-carboxylic acid benzyl ester 786705-25-7P, [4-(5-Methyl-6-(piperidin-4-yl)-3-(3-trifluoromethylphenyl)pyridazin-4-yl)pyrimidin-2-yl]((5)-1-phenylethyl)amine 786705-27-9P RL: PAC (Phermacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(TNF and/or IL inhibitor; prepn. of substituted pyridazines and analogs

analogs
as TNF and IL inhibitors for treatment inflammation, pain, and other disorders)
RN 786705-13-3 CAPLUS
CN 1-Piperidinecarboxylic acid,
4-[4-methyl-5-[2-(methylthio)-4-pyrimidinyl]6-[3-(trifluoromethyl)phenyl]-3-pyridazinyl]-, phenylmethyl ester (9CI)
(CA INDEX NAME)

786705-15-5 CAPLUS Petperidinecarboxylic acid, 4-[4-methyl-5-[2-(methylsulfonyl)-4-pyrimidinyl]-6-[3-(trifluoromethyl)phenyl]-3-pyridazinyl]-, phenylmethyl eater [901] (CA INDEX NAME) L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

$$\begin{array}{c} & & & \\ & & & \\ & & & \\ & & & \\ R^3 & & & \\ & & & \\ R^3 & & & \\ & & & \\ R^2 & & \\ & & & \\ R^2 & & \\ & & & \\ & & & \\ & & & \\ \end{array}$$

Title compds. I [wherein X1, X2 = independently (un)substituted CH, N; with the proviso that at least one of X1 and X2 = N; R1 = (halo)alkyl, AB

with the proviso that at least one of X1 and X2 - N; R1 = (halo)alkyl,

NO2, acyl, carboxy, carbamoyl, alkoxy, sulfamoyl, ureido, etc.; R2 =
alkyl, Ph, PhCH2, heterocyclyl, etc.; R3, R4 = independently
(un)substituted Ph, naphthyl, heterocyclyl; or pharmaceutically
reptable
salts thereof] were prepared as TNP-a, IL-1B, IL-6, and/or IL-8
inhibitors. For example, a multi-step synthesis concluding with the
reaction of 4-[5-(2-methanesulfonylpyrimidin-4-yl)-4-methyl-6-(3trifluoromethylphenyllpyridavin-3-yllpiperidine-1-carboxylic acid benzyl
ester and (S)-(-)-1-phenylethylamine gave II. The latter inhibited
lippoplysaccharide-activated THP1 cell TNP-a production with ICSO <20

µM. Thus, I and their pharmaceutical compna. are useful for the
treatment of inflammation, rheumatiod arthritis, Paget's disease,
osteoporosis, multiple myeloma, uveitis, acute or chronic myelogenous
leukemia, pancreatic b cell destruction, osteoarchritis, rheumatoid
spondylitts, gouty arthritis, inflammatory bowel disease, adult
respiratory distress syndrome (ARDS), psoriosis, Crohn's disease,

allergic
rhinitis, ulcerative colitis, anaphylsxis, contact dermatitis, asthma,
muscle degeneration, cachexia, Reiter's syndrome, type I diabetes, type

diabetes, bone resorption diseases, graft vs. host reaction, Alzheimer's disease, stroke, myocardial infarction, ischemia reperfusion injury, atherosclerosis, brain trauma, multiple sclerosis, cerebral malaria, sepsis, septic shock, toxic shock syndrome, fever, myslgisa due to HIV-1, HIV-2, HIV-3, cytomegalovirus (CMV), influenza, adenovirus, the herpes viruses, or herpes coater infection (no data).
786705-13-3P, 4-[4-Methyl-5-[2-methylsulfamylpyrimidin-4-yl]-6-[3-trifluoromethylphenyl]pyridazin-3-yl]piperidine-1-carboxylic acid benzyl eater 786705-15-5P, 4-[5-(2-Methylsulfonylpyrimidin-4-yl]-4-methyl-6-[3-trifluoromethylphenyl]pyridazin-3-yl]piperidine-1-carboxylic

ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

786705-17-7 CAPLUS Peiperidinecarboxylic acid, 4-[4-methyl-5-[2-[(1-phenylethyl)amino]-4-pyrimidinyl]-6-[3-(trifluoromethyl)phenyl]-3-pyridazinyl]-, phenylmethyl eater [9C1] (CA INDEX NAME)

786705-19-9 CAPLUS
2-Pyrimidinamine, 4-[5-methyl-6-(4-piperidinyl)-3-{3-(trifluoromethyl)phenyl]-4-pyridazinyl]-N-(1-phenylethyl)- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

786705-21-3 CAPLUS
Piperidine, 1-(2-hydroxy-1-oxopropyl)-4-{4-methyl-5-{2-{(1-phenylethyl)amino|-4-pyrimidinyl}-6-{3-(trifluoromethyl)phenyl}-3-pyridazinyl}- (9CI) (CA INDEX NAME)

RN 786705-23-5 CAPLUS
CN 1-Piperidinecarboxylic acid,
4-(4-methyl-5-[2-[(1S)-1-phenylethyl]amino]4-pyrimidinyl]-6-[3-(trifluoromethyl)phenyl]-3-pyridazinyl]-,
phenylmethyl
ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
786705-27-9 CAPLUS
Piperidine, 1-[(2R)-2-hydroxy-1-oxopropyl]-4-[4-methyl-5-[2-[[(1S)-1-phenylethyl]amino]-4-pyrimidinyl]-6-[3-(trifluoromethyl)phenyl]-3-pyridazinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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PAGE 2-A

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

786705-25-7 CAPLUS
2-Pyrimidinamine, 4-{5-methyl-6-(4-piperidinyl)-3-[3-(trifluoromethyl)phenyl!-4-pyridazinyl]-N-{(15)-1-phenylethyl}- (9CI) INDEX NAME)

Absolute stereochemistry.